

WHAT IS CLAIMED IS:

1. A mixture of sinterable powders for rapid prototyping, comprising a powdered polymer base and a material of a substantially glassy type, in microflake form.

5 2. The mixture of claim 1, wherein said polymer base is substantially formed by a polyamide.

3. The mixture of claim 2, wherein said polyamide polymer base comprises nylon.

10 4. The mixture of claim 1, wherein said glassy material is constituted by amorphous silica.

5. The mixture of claim 1, comprising a material of a substantially glassy type in the form of microspheres.

6. The mixture of claim 5, wherein said glassy material is constituted by amorphous silica.

15 7. The mixture of claim 5, comprising powdered aluminum.

8. The mixture of claim 7, comprising powdered graphite.

9. The mixture of claim 1, wherein said polymer base is comprised in quantities between 20% and 90% by weight.

20 10. The mixture of claim 9, characterized in that said polymer base is comprised in quantities between 35% and 50% by weight.

11. The mixture of claim 10, wherein said glassy material in microflake form is comprised in quantities between 0.1% and 70% by weight.

25 12. The mixture of claim 11, wherein said glassy material in microflake form is comprised in quantities between 10% and 25% by weight.

13. The mixture of claim 10, wherein said glassy material in microsphere form is comprised in quantities between 0% and 70% by weight.

30 14. The mixture of claim 13, wherein said glassy material in

microsphere form is preferably comprised in quantities between 15% and 25% by weight.

15. The mixture of claim 7, wherein said powdered aluminum is comprised in quantities between 0% and 70% by weight.

5 16. The mixture of claim 15, wherein said powdered aluminum is preferably comprised in quantities between 10% and 25% by weight.

17. The mixture of claim 8, wherein said powdered graphite is comprised in quantities between 0% and 40% by weight.

10 18. The mixture of claim 17, wherein said powdered graphite is preferably comprised in quantities between 0% and 10% by weight.

19. The mixture of claim 1, comprising a polymer base, glassy material in microflake form, glassy material in microsphere form, powdered aluminum and powdered graphite in the following quantities:

	polymer base	40%
15	glassy material in microflake form	20%
	glassy material in microsphere form	20%
	powdered aluminum	20%
	powdered graphite	0%

20 20. The mixture of claim 1, comprising a polymer base, glassy material in microflake form, glassy material in microsphere form, powdered aluminum and powdered graphite in the following quantities:

	polymer base	45%
	glassy material in microflake form	15%
	glassy material in microsphere form	20%
25	powdered aluminum	15%
	powdered graphite	5%